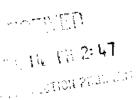
Use Attainability Analysis

for

WBID 0933 Bear Creek

Submitted by Tetra Tech. Inc.

To Missouri Department of Natural Resources Water Protection Program

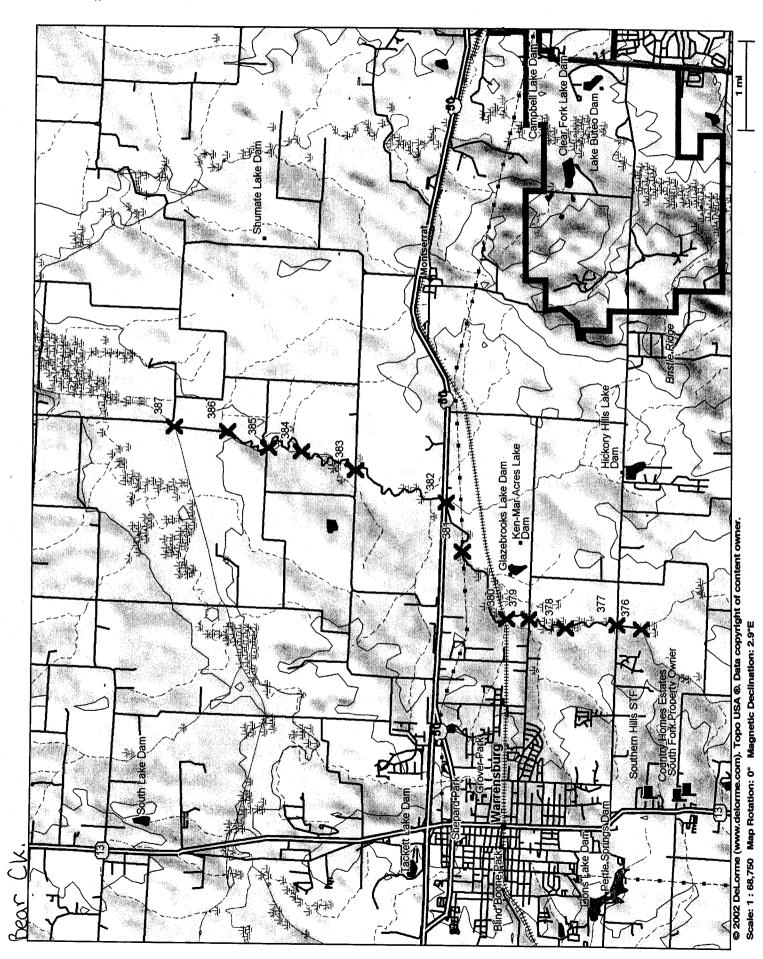


Data Sheet A - Water Body Identification

Water Body Name: (from USGS 7.5' quad) Beay Creek 8-digit HUC: 1030/104		, <u>, , , , , , , , , , , , , , , , , , </u>
8 digit 1010. 102001011		
8-digit HUC: 10300104		
Missouri WBID#: 0933		
County: Johnson		
Upstream Legal Description:		
Downstream Legal Description:		_
Upstream Coordinates: 38.74263 93.69480		-
Downstream Coordinates: 38.8156 y 93.65299		
Discharger Facility Name(s): Southern Hills STF		·=-
Discharger Permit Number(s):		
Number of Sites Evaluated: 12		
Name of Surveyor and Telephone Number: DB, CG	• .	
Organization: Tetra Tech INC		
Position: Scientists		
I, the undersigned, hereby affirm to the best of my knowledge, that all informations datasheet is true and accurate.	ation reported on	this UAA

____Date: 6/29/05

September 29, 2004



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

_							
	Missouri WBID#: 09	133 (site ID-	376)	Site Location Description: DD hwy @ Bridge crossing 200 M UPStream			
	Site GPS Coordinates: 36		_	≈ 3 0	m Urstream 5		
	Date & Time: 29 June	2005: 1175	gm	Facility Name: Southern Hills 5TF			
	Personnel: DB. CE	- ' CG 6/84/4 ₹	1 5	Permit Number:			
Į	Current Weather Conditions: Partly Cloudy, HOT Weather Conditions for Past 7 days: Hot, humid dy						
	Photo Ids: Upstream: 1884 Downstream: 1885 Other: * 1881, 1886						
M∠y Us	Mony Card A- es Observed*:	* Due to fen Shifted	cl or	n private	protertý, entir	ist was	
	☐ Swimming	☐ Skin diving	□ sct	UBA diving	☐ Tubing	☐ Water skiing	
ļ	☐ Wind surfing	☐ Kayaking	□ Bos	ating	☐ Wading	☐ Rafting	
	☐ Hunting	☐ Trapping	☐ Fish		None of the above	☐ Other:	
	Describe: (include numbe	r of individuals recreating	ng, freque	ency of use, photo-o	locumentation of evidence	of recreational uses, etc.)	
	N/A						
Suite	rrounding Condition	is*: (Mark all that prom	ote or im	pede recreational us	ses. Attach photos of evider	ce or unusual	
	☐ City/county parks	☐ Playgrounds ☐	MDC co	nservation lands	☐ Urban areas	☐ Campgrounds	
	☐ Boating accesses	☐ State parks ☐	National	forests	☐ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign	DiFence 1881 □	Steep slo	pes	MOther: 1886 b	eaverdam	
Ev	idence of Human Us	e*:					
	□ Roads	☐ Foot paths/prints		Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks	
	☐ Rope swings	☐ Camping Sites	□ F	Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	
	C Other:						
				· · · · · -			

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : (514 II) - 376)

□ Riffle Width	ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run Width	ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool Width	x: 9m	Length (fr):	20m Avg. Depth	ON: 0.25	Max. Depth (ft):	0.3 m
Flow Present		X No			1- miasurab	16
Downstream Vie	r Dhydod	Dimensiona				<u> </u>
□ Riffle Width		Length (ft):	Avg. Depth	(ft)·	Max. Depth (ft):	
☐ Run Width	-	Length (ft):	Avg. Depth	<u></u>	Max. Depth (ft):	· · ·
Pool Width	<u>.</u>		20m Avg. Depth		Max. Depth (ft):	Λ πίνος
Flow Present		ÇX(No	Estimated (f	2		
<u> </u>					n-mlasurabi	<u> </u>
bstrate*: (These	alues should a	add up to 100%.)				
% Cobble		Gravel 6	5 % Sand 3) % Silt	% Mud/Clay	% Bedroc
70 COODIE	<u>^~</u>					
	i*: (note amoi	unt of vegetation or	algal growth at the asse	essment site)		
quatic Vegetation	*: (note amoi		algal growth at the asse	essment site)		
quatic Vegetation	*: (note amoi		algal growth at the asse	essment site)	☐ Other:	
vater Characteris Odor: Color:	*: (note amor	all that apply.)			Other:	mish
quatic Vegetation N/A Vater Characteris Odor:	tics*: (Mark	all that apply.)	□ Chemical	⊠ None		mish
vater Characteris Odor: Color:	tics*: (Mark Sewage Clear	all that apply.) Musky Green	□ Chemical □ Gray	⊠None □ Milky	🗷 Other: byov	mish
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit:	tics*: (Mark Sewage Clear Sludge	all that apply.) Musky Green Solids	☐ Chemical ☐ Gray Strine sediments ☐ Foam	None Milky None None	Other: PYDY	
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit:	tics*: (Mark Sewage Clear Shudge Oil Shil	all that apply.) Musky Green Solids en Scum ional comments	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam (including informat	None Milky None None	Other: DYDY Other: Other:	
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit: comments: Please	tics*: (Mark Sewage Clear Sludge Moil Shil	all that apply.) Musky Green Solids Scum ional comments lely for removal of reconditions. Conse	☐ Chemical ☐ Gray Fine sediments ☐ Foam (including informate a recreational use design equently, this information	None Milky None None ion from intendention but rather	Other: DYDY Other: Other: Other: rviews) to this form is to provide a more d to directly influence a	
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit: comments: Please	tics*: (Mark Sewage Clear Sludge Moil Shil	all that apply.) Musky Green Solids Scum ional comments lely for removal of reconditions. Conse	☐ Chemical ☐ Gray Strine sediments ☐ Foam (including informat	None Milky None None ion from intendention but rather	Other: DYDY Other: Other: Other: rviews) to this form is to provide a more d to directly influence a	
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit: omments: Please This information is no omprehensive understaction on the recreation the undersigned	tics*: (Mark Sewage Clear Siudge Oil 5 1	all that apply.) Musky Green Solids Scum ional comments lely for removal of r conditions. Consess but may point to c	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam (including informate a recreational use design equently, this information onditions that need furth	None None None nation from intenation but rather is not intendener analysis or the	Other: DYDY Other: Other: Other: rviews) to this form is to provide a more d to directly influence a hat effect another use.	
Auatic Vegetation Auatic Vegetation Auatic Vegetation Auater Characteris Odor: Color: Bottom Deposit: Surface Deposit: comments: Please This information is no comprehensive understaction on the recreation	tics*: (Mark Sewage Clear Siudge Oil 5 1	all that apply.) Musky Green Solids Scum ional comments lely for removal of r conditions. Consest but may point to continue to the best	☐ Chemical ☐ Gray Fine sediments ☐ Foam (including informate a recreational use design equently, this information onditions that need furth of my knowledge, t	None Milky None None ion from intentation but rather is not intendenter analysis or the hat all information in the information is not intendenter analysis or the information in the information i	Other: DYDY Other: Other: Other: rviews) to this form is to provide a more d to directly influence a hat effect another use.	
vater Characteris Odor: Color: Bottom Deposit: Surface Deposit: omments: Please This information is no omprehensive understaction on the recreation the undersigned	tics*: (Mark Sewage Clear Siudge Oil 5 1	all that apply.) Musky Green Solids Scum ional comments lely for removal of r conditions. Consest but may point to continue to the best	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam (including informate a recreational use design equently, this information onditions that need furth	None Milky None None ion from intentation but rather is not intendenter analysis or the hat all information in the information is not intendenter analysis or the information in the information i	Other: DYDY Other: Other: Other: rviews) to this form is to provide a more d to directly influence a hat effect another use.	

0933_376_US



0933_376_DS



additional photos not included in this document

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 09	33/5He ID-3	7升) Site Location I	Site Location Description: ~ 50 meters upstream from DD Hwy bridge crossing			
· -	8.74392°; 93.69°	1218	DD Hwy bridge	crossing		
D-4 0 m2			Facility Name: Southern Hills STF			
Personnel: DB C	G	Permit Numbe		<u> </u>		
Current Weather Condition	ons: Partly Cloudy	HOT Weather Cond	itions for Past 7 days:	humid dry		
Photo Ids: Upstream:	1883 Downstre			MUMIL Jary		
es Observed*:	F Due to Fence	on private pre		3HC Was		
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	□ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fishing	None of the above			
Describe: (include numb	er of individuals recreating	g, frequency of use, phou	o-documentation of evidence	☐ Other: e of recreational uses, et		
rrounding Condition	er of individuals recreating	· <u> </u>	e-documentation of evidence	e of recreational uses, et		
N/A	er of individuals recreating	· <u> </u>	uses. Attach photos of evide	of recreational uses, et		
rrounding Condition	15*: (Mark all that promo	ote or impede recreational	uses. Attach photos of evide	nce or unusual		
rrounding Condition us of interest.) City/county parks	18*: (Mark all that promo	ote or impede recreational	uses. Attach photos of evidence	e of recreational uses, et		
rrounding Condition ns of interest.) □ City/county parks □ Boating accesses	Playgrounds □ 1 State parks □ 1 Fence % □ 5	ote or impede recreational MDC conservation lands Vational forests	uses. Attach photos of evide	nce or unusual		
rrounding Condition ns of interest.) □ City/county parks □ Boating accesses □ No trespass sign	Playgrounds □ 1 State parks □ 1 Fence % □ 5	ote or impede recreational MDC conservation lands Vational forests	uses. Attach photos of evide	nce or unusual Campgrounds Stairs/walkway		
rrounding Condition ns of interest.) City/county parks Boating accesses No trespass sign idence of Human Us	er of individuals recreating 18*: (Mark all that promo 19 Piaygrounds 19 10 State parks 19 20 Fence 18 19 10 State 18 10 State 18	MDC conservation lands National forests Steep slopes	uses. Attach photos of evide	nce or unusual Campgrounds		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : (5it ID - 377) Stream Morphology: Upstream View Physical Dimensions: Width (ft): □ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Length (ft): Avg. Depth (ft): Max. Depth (ft): 🖾 Pooi Width (Rt): Length (fe): 20m 8m Max. Depth (R): 0.35 m Avg. Depth (ft): D Flow Estimated (ft3/sec): Present? ☐ Yes non-mlasurable Downstream View Physical Dimensions: Width (ft): □ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Length (ft): Avg. Depth (ft): Max. Depth (ft): [⊠.Pool Width (f)/: 11.3m Length (ft): Avg. Depth (fr): Max. Depth (ft): 0.4m Òr∕Flow Estimated (ft³/sec): Present? C Yes Ø.No. mlasurable 71/11/1-Substrate*: (These values should add up to 100%.) % Cobble % Gravel 40 % Sand 50 % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) small amounts of algal on stream edge Water Characteristics*: (Mark all that apply.) Odor: □ Sewage None None Musky □ Chemical Other: Color: ☐ Clear ☐ Green ☐ Gray Other: □ Milky brownish Bottom Deposit: ☐ Sludge □ Solids Fine sediments □ None Other: Surface Deposit: DKOil Shell D Scum ☐ Foam □ None Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA

QCCheck: CG

Tech INC

Date: 6/29/05
Position: Scientist

datasheet is true and accurate,

Signed:

Organization:

0933_377_US



0933_377_DS



additional photos not included in this document

0933_377_fence



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 100	aa (Yam	771	Site Location D	escriptions	6 1 1 4		
	33 (sile ID -		~ 300	Site Location Description: E. aiv Ra @ bridge crossi			
Site GPS Coordinates: 3	8.75757; 43.	<u>6939</u>	16	·			
Date & Time: 05249	ne 2005 j 10 j	57 au		Facility Name: Southern Hills JTF			
Personnel: Db, C6	1		Permit Number:				
Current Weather Condition	ons: Partly-Clo	ovdy.	HOT Weather Conditi	ions for Past 7 days: HO+,	humid dry		
Photo Ids: Upstream:	1878 Down	nstrean	n: 1879 Othe		0		
Uses Observed*:			mer	nony card A	· · · · · · · · · · · · · · · · · · ·		
☐ Swimming	☐ Skin diving		☐ SCUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	Į,	☐ Boating	☐ Wading	Rafting		
☐ Hunting	☐ Trapping		□ Fishing	None of the above	Other:		
Describe: (include numb	er of individuals recr		, nequency of asc, photo-	documentation of evidence	of recreational uses, etc.)		
N/A- Surrounding Condition							
N/A- Surrounding Condition		promote			nce or unusual		
Surrounding Condition items of interest.)	ns*: (Mark all that p	oromote	e or impede recreational u	ises. Attach photos of evide	nce or unusual Campgrounds		
Surrounding Condition items of interest.) El City/county parks	ns*: (Mark all that p	oromote M Na	e or impede recreational u	ises. Attach photos of evide	nce or unusual		
Surrounding Condition items of interest.) Cl City/county parks Boating accesses No trespass sign	ns*: (Mark all that p □ Playgrounds □ State parks □ Fence	oromote M Na	e or impede recreational u DC conservation lands ational forests	Ses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual Campgrounds		
Surrounding Condition items of interest.) Cl City/county parks Boating accesses	ns*: (Mark all that p □ Playgrounds □ State parks □ Fence	□ M □ Ni	e or impede recreational u DC conservation lands ational forests	Ses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual Campgrounds		
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	Destate parks □ Fence	□ M □ Na □ Sta	e or impede recreational u DC conservation lands ational forests tep slopes	Ses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual ☐ Campgrounds ☐ Stairs/walkway		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : (514 ID - 378) Stream Morphology: Upstream View Physical Dimensions: □ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (fb): 10m ₹ Pool Length (ft): Avg. Depth (ft); Max. Depth (ft): 0.5 m **⊠**Flow Estimated (ft³/sec): Present? ☐ Yes X No mon-measurable Downstream View Physical Dimensions: Width (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): ⊠ Pool Length (ft): Avg. Depth (K); 10m 20m Max. Depth (ft): **K**Flow Estimated (ft³/sec): Present? ☐ Yes ZKNo. mlasival Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) NIA Water Characteristics*; (Mark all that apply.) Odor: ☐ Sewage ☐ Musky □ Chemical □ None XOther: COW MANUTE Color: ☐ Clear ☐ Green ☐ Gray OKOther: DOWNISK □ Milky Bottom Deposit: ☐ Solids □ Sludge Fine sediments ☐ None Other: Surface Deposit: M Oil YMU ☐ Scum □ Foam □ None Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Date: C/29/05

TUCH, INC Position: Scientist

QC Check: CG

Signed:

Organization:

0933_378_US



0933_378_DS



additional photos not included in this document

0933_378_livestock_watering



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

						
Missouri WBID#: 093	3 (SHCID-	379)	Site Location Description: E. div Road @			
Site GPS Coordinates: 39	75873 93.69	1303	bridgie crossing.			
Date & Time: 289 Un.	c 2005; 1019	27am	Facility Name: Southern Hills STF			
Personnel: DB CG	Personnel: DB CG					
Current Weather Condition	s: Partly Cloud	dv.not	Weather Condition	ons for Past 7 days: Hot,	humid day	
		, ,	371 Other:	: 1873, 1674		
Uses Observed*:			Memor	y card A		
☐ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□ Воа	ting	☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fish	ing	None of the above	☐ Other:	
Describe: (include number	of individuals recre	ating, freque	ency of use, photo-	locumentation of evidence	of recreational uses, etc.)	
1 1					,	
Surrounding Conditions items of interest.)	8*: (Mark all that pr	omote or imp	oede recreational us	es. Attach photos of evider	ice or unusual	
☐ City/county parks	☐ Playgrounds	☐ MDC cor	servation lands	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	☐ Steep slop	pes	☐ Other:		
Evidence of Human Use	e *:					
X Roads	☐ Foot paths/print	ts 🗀 D	ock/platform	Livestock Watering	□ RV / ATV Tracks	
☐ Rope swings	☐ Camping Sites	□Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	
Other: trash	1874		, 			

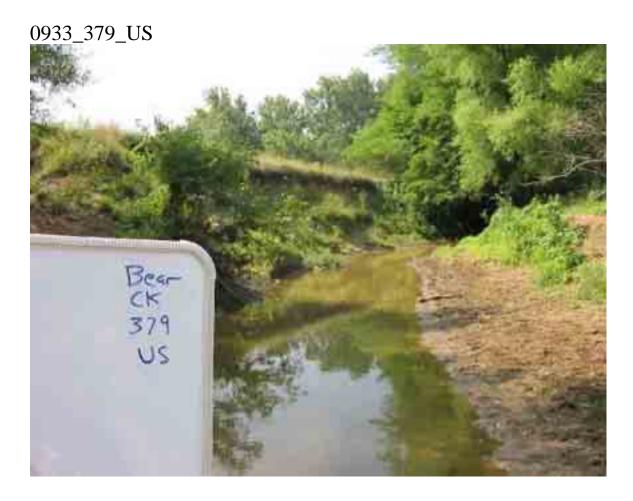
^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : (511c ID - 379)

Stream Morphology:

Upstream View Physical Dimensions:

	Physical Dime	nsions:				
□ Riffle Width	(ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	-
□ Run Width	(ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Pool Width	06: 4m	Length (#1): 20 m	Length (M): 20 m Avg. Depth (M): 0.15 m			0.75 m
Flow Present	t? □ Yes b	No	Estimated (ft³/sec): NON			<u></u>
Downstream Vie	ew Physical Di	mensions:		***		
□ Riffle Width		Length (ft): Avg. Depth (ft):		ft):	Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	_ -
Pool Width	(n): 4m	Length (ft): 20 n	Avg. Depth (pr: 0.2 m	Max. Depth (ft):	0.35 m
Flow Presen		XNo	Estimated (ft	1. · ·	-measurab	<u> </u>
strate*: (These % Cobble		up to 100%.)	Sand 45	% Silt	% Mud/Clay	% Bedroc
		of vegetation or algal				
nter Characteris		· -				
Color:	□ Sewage	☐ Musky ☐	Chemical	None	☐ Other:	
	□ Clear		Gray	☐ Milky	MOther: DYDW	nish_
Bottom Deposit:	□ Shudge		Fine sediments	□ None	Other:	
Surface Deposit:	DE Oil AMUN	□ Scum □	Foam	□ None	☐ Other:	, _
mments: Please	attach additior	nal comments (inch	uding informati	on from intervie	ws) to this form	
			_		mo, to bito totim.	
is information is no prehensive underst	ot to be used solely anding of water co	of for removal of a recre conditions. Consequently at may point to condition	eational use designation	ation but rather is to	provide a more	
is information is no prehensive underst ision on the recreati he undersigned tasheet is true a	ot to be used solely anding of water co ion use analysis bu l, hereby affirm and accurate.	r for removal of a recre onditions. Consequent at may point to condition to the best of my	eational use designately, this information ons that need further when we have been the worken to be the control of the control	ation but rather is to is not intended to er analysis or that e nat all informat	o provide a more directly influence a ffect another use. ion reported on	
is information is no prehensive underst ision on the recreati he undersigned tasheet is true a	ot to be used solely anding of water co ion use analysis bu l, hereby affirm and accurate.	r for removal of a recre onditions. Consequent at may point to condition to the best of my	eational use designately, this information ons that need further when we have been the worken with the work of the	ation but rather is to is not intended to er analysis or that e nat all informat	o provide a more directly influence a ffect another use. ion reported on	
is information is no prehensive underst ision on the recreati he undersigned tasheet is true a	ot to be used solely anding of water co ion use analysis bu l, hereby affirm and accurate.	for removal of a recre orditions. Consequentless at may point to condition	eational use designately, this information ons that need further when we have been the worken with the work of the	ation but rather is to is not intended to er analysis or that e nat all informat	o provide a more directly influence a ffect another use. ion reported on	





additional photos not included in this document

Data Sheet B - Site Characterization

		(A separate d	ata sh	eet must be comple	ted for each site)	on stream)		
	wbid #: 093	<u> </u>	380	Site Location E	Site Location Description: a 200 m from E. DIV Rd. bridge crossing			
Site GPS	Site GPS Coordinates: 62905 38.75905; 93.69151			69151		Crossing .		
Date & T	Date & Time: 219 June 2005: 10:30 am				Southern Hills	STF		
Personne	<u> νν</u> , υσ	, , , , , , , , , , , , , , , , , , ,		Permit Number	-	· · · · · · · · · · · · · · · · · · ·		
Current V	Current Weather Conditions: Gunny, hot, humid Weather Conditions for Past 7 days: Hot humd dry					thumid dry		
Photo Ids	: Upstream:	1876 Dow	nstrear	a: 1875 Othe		7		
Uses Obser	ved*:			memony car	d_A			
☐ Swim	ming	☐ Skin diving		☐ SCUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind	surfing	☐ Kayaking		☐ Boating	□ Wading	Rafting		
☐ Hunti	•	☐ Trapping		☐ Fishing	None of the above	C Other:		
Surroundi	ng Condition		promote	or impede recreational	uses. Attach photos of evic	dence or unusual		
<u> </u>	county parks			D.C	T			
		□ Playgrounds		DC conservation lands	Urban areas	☐ Campgrounds		
	ng accesses	☐ State parks		ational forests	O Nature trails	☐ Stairs/walkway		
□ NO EU	spass sign	☐ Fence	□ Su	ep slopes	Other:			
Evidence o	f Human Us	e *:						
☐ Road	S	☐ Foot paths/prit	nts	☐ Dock/platform	☐ Livestock Watering	□ RV / ATV Tracks		
□ Rope	swings	☐ Camping Sites	1	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
Other	: trash	1877						

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933: 5He (II) - 380) Stream Morphology: Upstream View Physical Dimensions: Width (ft): □ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Length (ft): Avg. Depth (ft): Max. Depth (ft): DXPool Width (fr): Length (fp): 2 () m 7m Max. Depth (ft): D.55m Avg. Depth (ft): **⊠**Flow Estimated (ft³/sec): Present? non-☐ Yes mlasurab Downstream View Physical Dimensions: ☐ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): 🗅 Run Length (ft): Avg. Depth (ft): Max. Depth (ft): [2∕Pool Width (ft): Length (fix): 7() (Avg. Depth (fix): Max. Depth (H): 0.30 m Present? Estimated (ft³/sec): ☐ Yes ☑ No mon-magginab Substrate*: (These values should add up to 100%.) % Cobble % Gravel 40 % Sand 50 % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ Sewage ☐ Musky ☐ Chemical None ☐ Other: Color: ☐ Clear ☐ Green Other: ☐ Gray ☐ Milky brownish Bottom Deposit: □ Sludge ☐ Solids Exfine sediments ☐ Other: □ None Surface Deposit: CKOil Thelen - Scum ☐ Foam □ None ☐ Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this ${f UAA}$ datasheet is true and accurate. Signed:

Position: Scientist

QC Check & CG

September 29, 2004

Organization:

0933_380_US



0933_380_DS



additional photos not included in this document

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

<u> </u>							
				Site Location Description: ~ 300m Hers UP of HWY 50 (51+6 382)			
Site GPS Coordinates: 39		06914	HWY50 (31+6 382)				
Date & Time: 29 UV	ne 2005; 9:5	57am	Facility Name: Southern Hills STF				
Personnel: DB, CG,			Permit Number:	· · · · · · · · · · · · · · · · · · ·	·		
Current Weather Condition	s: Sunny hot,	humid	Weather Conditi	ons for Past 7 days: 101;	humid dry		
I	869 Downs		870 Other		· · · · · · · · · · · · · · · · · · ·		
Uses Observed*:			mumo	ory-card A			
□ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□ Boa	ting	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish		None of the above	☐ Other:		
Describe: (include number	r of individuals recrea	ating, freque	ncy of use, photo-	documentation of evidence	of recreational uses, etc.)		
	1				Í		
Surrounding Conditions items of interest.)	S*: (Mark all that pro	omote or imp	pede recreational u	ses. Attach photos of evider	ice or unusual		
☐ City/county parks	D Playgrounds	☐ MDC cor	nservation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks [□ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence [☐ Steep slop	pes	☐ Other:			
Evidence of Human Use	*•			_			
☐ Roads	☐ Foot paths/prints	и пр	ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	□F	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:					<u> </u>		
	•				***************************************		

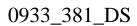
^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : 5116 10 - 381

Stream Morph Upstream Vi	ology: iew Phy	/sical Dir	nensions:					
I	idth (ft):		Length (ft):	•	Avg. Depth	(ft);	Max. Depth (ft):	
□ Run W	idth (ft):		Length (ft):		Avg. Depth	(ft);	Max. Depth (ft):	
Pool W	idth (ft):	6m	Length (fir):	20m	Avg. Depth	(#): 0.2m	Max. Depth (%): 0.25	<u>~</u>
XFlow P	resent?	□ Yes	DX_N0	<u>, </u>	Estimated (f		measurable.	
Downstream	. View i	Physical	Dimensions:					
	idth (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	
□ Run W	idth (ft):	_	Length (ft):		Avg. Depth		Max. Depth (ft):	
Ø Pool ₩	idth (fr):	Бм		20m	Avg. Depth	 ,	Max. Depth (n): 0.2 n	
1/	resent?	☐ Yes	□ X (0	<u></u>	Estimated (f			<u> </u>
Substrate*: (T	hese valu			∂ % San	d <u>4</u>	0 % Silt 10	% Mud/Clay 8 Bed	rock
Water Charac	teristic	E*• (Mark	all that apply			· .	-	
Odor:		Sewage	an mat appry.) ☐ Musky	— □ Ch	emical	DX None	☐ Other:	\neg
Color:		Clear	☐ Green	☐ Gr	Ay	☐ Milky	Mother: brownish	
Bottom Depos	sit:	Sludge	☐ Solids		e sediments	□ None	MOther: CLON SIL	
Surface Depo		(Oil	□ Scum	□ Fo		□ None	□ Other:	
*This information comprehensive un	is not to derstandi	be used soling of water	ely for removal of conditions. Cons	a recreation	nal use design	uation but rather is a	directiv influence a	
I, the undersig datasheet is tro	ned, he	ereby affi	irm to the best	of my kı	nowledge, t	hat all informa	tion reported on this UA	A
Signed:		41			Date:	4/0 1/0)		
Organization:_	10	ra Ti	ich, INC		Position	6/19/05 n: <u>Scien</u>	ti s -	
				QCC	heck;	(G		

0933_381_US







additional photos not included in this document

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 093	33 /site ID-	382)	Site Location Description: HW 50@ bridge			
Site GPS Coordinates: 38	3.77287,93.		crossing			
	(2005; 9:45a		Facility Name: Southern Hills STF			
Personnel: DB CC	,		Permit Number:			
Current Weather Condition	15: Sunny, hot, h	umid	Weather Condition	ons for Past 7 days: 101	humid day	
	Downstr	eam: 🏌	867 Other		100	
Uses Observed*:			memory c	ard A		
☐ Swimming	☐ Skin diving	□ sc	JBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	□ Kayaking	□Воа	iting	☐ Wading	□ Rafting	
☐ Hunting	☐ Trapping	□ Fish		☐ None of the above documentation of evidence	☐ Other:	
Surrounding Conditions	S*: (Mark all that pron	note or im	pede recreational us	ses. Attach photos of evider	nce or unusua)	
☐ City/county parks	□ Playgrounds □	MDC cor	nservation lands	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks '☐	National	forests	☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence ☐	Steep slop	pes	☐ Other:	<u> </u>	
Evidence of Human Use	**			· · · · · · · · · · · · · · · · · · ·	· ·	
Roads	☐ Foot paths/prints	Q Q	ock/platform	☐ Livestock Watering	□ RV / ATV Tracks	
☐ Rope swings	☐ Camping Sites	□ Fi	ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	
Other:					·	
						

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - D	ata Sheet	B for W	BID# <u>093</u>	<u>33_:</u> [4	ite II) -	382)		
Stream Morpl <u>Upstream</u> V	hology:				-,	7		
	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	
Run	Width (ft):	_	Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	<u></u>
X Pool	Width (f)):	7m	Length (ft):	20m	Avg. Depth	(ft): 0.25m	Max. Depth (ft):	0.3m
P Flow	Present?	D Yes	⊠(No		Estimated (f		measurable	
Downstream	m View I	Physical I	' Dimensions:					-
	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	
☐ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):	
Pool	Width (fe):	10m	Length (ft):	20m	Avg. Depth	(ft): 0.2 m	Max. Depth (ft):	0.35m
[⊠ Flow]	Present?	☐ Yes	ÇX(No		Estimated (f	t ³ /sec): NON	- measurabl	e
Aquatic Vege	VA			or algal gro	wth at the asso	essment site)	% Mud/Clay 5	% Bedrock
Odor:		Sewage	☐ Musky	□ Ci	emical	None	Other:	· <u></u> -
Color:		Clear	☐ Green	□Gr	ay	☐ Milky	DXOther: brown	ish
Bottom Dep	osit:	Sludge	□ Solids	≱ (Fir	ne sediments	□ None	·	511-
Surface Dep	osit:	Oil Shl	(∩ □ Scum	□ Fo	am	None	Other:	
*This informatio comprehensive u decision on the re	lease attain is not to linderstanding creation ungereation under ungereation under ungereation under ungereation under u	nch additi be used soling of water se analysis reby affi	onal commen ely for removal of conditions. Con but may point to irm to the bes	of a recreation nsequently, to conditions	nal use design his information that need furth nowledge, t	nation but rather is on is not intended to her analysis or that	ews) to this form. to provide a more odirectly influence a effect another use. Itlon reported on	this UAA
Organization:	Teh	ra Tecf	, INC		Positio	n: <u>Scient</u>	ist	_

accheck : CG

September 29, 2004

0933_382_US







additional photos not included in this document

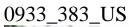
Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	<u> </u>							
Missouri WBID #: 09	33/5ite 10 3º	83)	Site Location Description: 200 to Rd @					
Site GPS Coordinates: 38	78692; 93	66222		bridge crossing				
	nc 2005 : L	DODM	Facility Name: Southern Hills STF					
Personnel: DB, CG			Permit Number:					
Current Weather Condition	ns: Hot humid	เรียทกง	Weather Conditions for Past 7 days: Hot, humid dry					
Photo Ids: Upstream:		nstream: 14		- 11/11 I	norther, ary			
Uses Observed*:		emony co	<u> </u>					
□ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□Воа	iting	☐ Wading	Rafting			
☐ Hunting	☐ Trapping	☐ Fish		☐ None of the above documentation of evidence	Other:			
Surrounding Conditions items of interest.)	8*; (Mark all that p	romote or im	pede recreational u	ses. Attach photos of evide	nce or unusual			
☐ City/county parks	☐ Playgrounds	☐ MDC cor	nservation lands	☐ Urban areas	☐ Campgrounds			
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	Steep slo	pes 1864	☐ Other:				
Evidence of Human Use	e*:	\	· ¥ 1 , , _		· <u></u>			
Roads	☐ Foot paths/prin	its 🗆 D	ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks			
☐ Rope swings	☐ Camping Sites	□F	ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle			
Cl Other:		•		<u> </u>				
	·			 -				

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 0933 : (514 ID - 383) Stream Morphology: Upstream View Physical Dimensions: Width (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ⊠ Pool Width (fr): 20 m Max. Depth (fr. 1) .3m Length (ft): Бm Avg. Depth (ff): X Flow Present? X No Estimated (ft³/sec): ☐ Yes Downstream View Physical Dimensions: ☐ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Length (ft); Avg. Depth (ft): Max. Depth (ft): ⊠ Pool Width (fc): Max. Depth (fir): 0.5m 12m Length (ft): Avg. Depth (ff): X Flow Estimated (ft³/sec): Present? ☐ Yes ZKNο MUGURAD Substrate*: (These values should add up to 100%.) % Cobble 25 % Gravel % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ Sewage □ Musky ☐ Chemical ⊠None Other: Color: Done: bownish-acelon □ Clear ☐ Green ☐ Gray ☐ Milky Bottom Deposit: □ Sludge □ Solids I Fine sediments □ None Other: Surface Deposit: 🖾 Oil Á hII 🗸 🗆 Scum □ Foam □ None Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Signed: Tetra Tech INC Position: Scientist Organization: QC Check: CG





0933_383_DS



additional photos not included in this document

0933_383_steep_slopes



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 093	3 (5HE ID 3	84)	Site Location De	scription: ~ 100 yar	ds DS from		
Site GPS Coordinates: 7	38.78781, 93	66205	(sike) 383				
Date & Time: 29 Jun	(2005, 9:00)am	Facility Name: Southern Hills STF				
Personnel: DB, CG	, ,		Permit Number:				
Current Weather Condition	ns: hot, humic	d, sunny	Weather Conditions for Past 7 days: hot humid, dry				
Photo Ids: Upstream:	866 Downs	stream: 18	65 Other		711-1011-1		
Uses Observed*:		27	nemony can	d A			
☐ Swimming	□ Skin diving	□ scu	JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□Воа	ting	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ing	None of the above	□ Other-		
Describe: (include number	r of individuals recre	ating, freque	ency of use, photo-	documentation of evidence	of recreational uses, etc.)		
	1/1						
Surrounding Conditions	5*: (Mark all that pro	omote or imp	oede recreational u	ses. Attach photos of evider	ice or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC cor	servation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	□ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	□ Steep sio	pes	Other:			
Evidence of Human Use	**						
□ Roads	☐ Foot paths/print		ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	Camping Sites	ΠF	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:							
<u></u>				· · · · · · · · · · · · · · · · · · ·			

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 1933 : (Sitc ID - 384)

Stream Morpho Upstream Vi	ology: ew Physi	ical Dime	ensions:					
	idth (ft);		Length (ft):		Avg. Depth	ı (ft):	Max. Depth (ft):	
□ Run Wi	idth (ft):		Length (ft):		Avg. Depth		Max. Depth (ft):	
ZXPool Wi	idth (ft):	6m	Length (ft):	20m	Avg. Depth		Max. Depth (ft):	ъ 4
Flow Pro	sent?		No.	730.11	Estimated (7 0, 2111	measurable	
Downstream	View Pt	rysical Di	imensions:					
	idth (ft):	.,	Length (ft):	, <u></u>	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run Wi	idth (ft):	-	Length (ft):	<u>-</u> -	Avg. Depth		Max. Depth (ft):	
D Pool W	idth (fp):]	Um	Length (ft):	20m	Avg. Depth	186. 20	34 5 106	
Flow Pro	,		No	Z\ <u>J</u> ††	Estimated (/		0.4m
				<u>-</u> .		7 101 7	mlasurabl	<u> </u>
Substrate*: (Th	ese values		up to 100%.)	31) % Sano				
70 00	ooie 1	<i>50</i> % 0	ravel	30 % Sano	<u>' </u>	HO % Silt	% Mud/Clay	% Bedrock
Water Characte	eristics*	: (Mark all	that apply.)			· · ·		
Odor:		ewage	☐ Musky	□ Che	mical	None	Other:	
Color:	<u> </u>	lear	☐ Green	□ Gra	у	□ Milky	Ø Other: byDWh	ish
Bottom Deposi		ludge	☐ Solids	Fine	sediments	□ None	☑ Other: 5111/	clay
Surface Deposi	t: X0	ii Shun	☐ Scum	☐ Foa	m	□ None	☐ Other:	===-/
This information is omprehensive unde ecision on the recon, the undersign	s not to be erstanding eation use sed, here	used solely of water co analysis bu by affirm	for removal conditions. Continued to the total continued to the tota	of a recreation sequently, the conditions the	al use design is information at need furth	nation but rather is a on is not intended to ser analysis or that o		this UAA
······································	e anio AC	curare.						
Signed:				<u></u>	Date:	4/29/08		·
Organization;	Tet	ra Te	ch, INC		Position	n: Scient	hist	-
					hecks			

0933_384_US



0933_384_DS



additional photos not included in this document

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	· , ,						
Missouri WBID #: 097			Site Location Description: VNNAMED Rd. off of 521 Rd				
Site GPS Coordinates: 3	8.80115 93.65	746	O I STOCK	men ion off of	DZI NVC		
Date & Time: 28 UN	(2005: 3:00		Facility Name: Southern Hills STF				
Personnel: DB CG	,	Τ'	Permit Number:				
Current Weather Condition	ns: partly sunny	hot Rumi	(Weather Conditions for Past 7 days: Hot, humid, any				
Photo Ids: Upstream: 18	59 Downs	-	58 Other		in the state of th		
Uses Observed*:			mory card	LA-			
☐ Swimming	Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	□ Kayaking	□ Boa	ting	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ing	☐ None of the above	C Other:		
Describe: (include number	r of individuals recrea	ating, freque	ncy of use, photo-	documentation of evidence	of recreational uses, etc.)		
N/A							
Surrounding Conditions	S*: (Mark all that pro	omote or imp	oede recreational us	ses. Attach photos of eviden	ice or unusual		
☐ City/county parks	☐ Playgrounds [☐ MDC con	servation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks ☐	☐ National t	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence [i	Steep slop	es	☐ Other:			
Evidence of Human Use	·*:						
Roads	☐ Foot paths/prints		ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	□ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:		•	-	<u> </u>			
		· · · <u>· · · · · · · · · · · · · · · · </u>		-			

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Pa	ge Two – l	Data Shee	t B for W	/BID# <u>093</u>	<u>3</u> : (:	site 10	- 385)			
	eam Mor Upstream		ysical Din	nensions:			0.6	0.8		
	□ Riffle	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
	□ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
	X Pool	Width (ft):	lam	Length (ft):	20 m	Avg. Depth	(ft): 0.6 m	Max. Dep	th (ft):	0.8m
	⊠(Flow	Present?	□ Yes	Ø No		Estimated (f		n-mea	ouse	Ible.
	Downstre	am View	Physical 1	Dimensions:						
	□ Riffle	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dept	th (ft):	
	□ Run	Width (ft):		Length (ft):	:	Avg. Depth	(ft):	Max. Dept	th (ft):	
	∑ P∞l	Width (ft):	12m	Length (ft):	20 m	Avg. Depth	(ft): 0.6 m	Max. Dept	th (ft):	0.8m
	[Z]Flow	Present?	☐ Yes			Estimated (f		n-mea		
Su	bstrate*:	(These value Cobble		dd up to 100%.) Gravel	% San	d 100	% Silt	% Mud/Clay	/}	% Bedrock
	12	IA_		all that apply.)	or algal gro	wth at the asse	essment site)			70 27 78 2
	Odor:		Sewage	□ Musky	□ Ch	emical	None	☐ Other:		
	Color:		Clear	☐ Green	□ G ₁		☐ Milky	Other:	Brown	ish
	Bottom De	posit:	Sludge	☐ Solids)D(Fin	e sediments	□ None	(X)Other:		
	Surface De	posit:	(Oil 5hu	ey □ Scum	□ Fo	am	□ None	Other:	. .	
*Ti con dex I, i da Sig	his informati nprehensive cision on the	ion is not to understand recreation of signed, he true and	be used soling of water use analysis ereby affi accurate	ely for removal or conditions. Con but may point to	of a recreations equently, to conditions st of my kn	nal use design his information hat need furth nowledge, t	nation but rather in is not intende her analysis or the hat all information of the her analysis of the hat all information of the her analysis of the hat all information of the her al	rviews) to this is to provide a r d to directly influent effect another mation repor	nore lence a luse.	this UAA
					yc (-γ (XV/C	, UG			



Data Sheet B - Site Characterization

		(A separate	data s	heet m	ust be cor	nplete	d for each site)			
į	Missouri WBID#: 0933 (5112 ID-386)			<u>a)</u>	Site Location Description: ~ 100 m U5 of 387					
	Site GPS Coordinates: 3881551 93 65314				\sim 100	mi	15 of 387			
	Date & Time: 28 June 2005: 345 pm				Facility Name: Southern Hills STE					
	Personnel: DB CG				Permit Number:					
	Current Weather Condition	mid	Weather Conditions for Past 7 days: Hot humid any							
	Photo Ids: Upstream: 8	60 Do	_	ım: 186						
Us	es Observed*:			77	umon	y ca	rd A			
	☐ Swimming	☐ Skin diving		□ scu	ЉA diving		☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking		□ Boa	ting		☐ Wading	☐ Rafting		
	☐ Hunting	☐ Trapping		□ Fish			☐ None of the above	☐ Other:		
	Describe: (include numbe	r of individuals re	creating	g, freque	ency of use,	photo-d	ocumentation of evidence	of recreational uses, etc.)		
	NIA	•						ļ		
	17/17	•								
					<u> </u>					
Su	rrounding Condition	S*: (Mark all that	promo	te or imp	oede recreati	onal us	es. Attach photos of evider	nce or unusual		
	☐ City/county parks	☐ Playgrounds	D N	ADC cor	nservation la	ndş	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	ומ	lational :	forests		☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign	☐ Fence	□s	teep sion	es		Other:			
Ev	idence of Human Us	e * :				_	···			
	□ Roads	☐ Foot paths/pr	ints	□Þ	ock/platforn	1	☐ Livestock Watering	☐ RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sit	es	□Fi	re pit/ring		□ NPDES Discharge	☐ Fishing Tackle		
	☐ Other:									
Sit	te Locations Map(s): her items that may be o	Attach a map of interest. (Inc	f entir	e segm hotogr	ent with a aphs)	sessm	ent sites clearly labele	d. Mark any		
*So maj	ome of this information is a y point to conditions that n	not intended to dir teed further analys	ectly in is or the	fluence a at effect :	decision or another use.	алу оп	e particular recreational us	e analysis but		
	Acres to									
تع د څ	* No GCCess fo 0 September 29, 2004	original site alternate	386 ! 10	large	se 50y be 00 ~ 100	m c	eld on private p 's of site 387	Page 18		

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am Morpholog Ipstream View								
☐ Riffle Width	(ft):	Length (ft):		vg. Depth	(ft):	Max. De	pth (ft):	
Run Width	(16): /m	Length (ft): 20	om A	vg. Depth	(90): O. L.	ົ່ງ Max. De	pth (fe): (2.15 _K
□ Pool Width	(ft):	Length (ft):	A	vg. Depth	(ft):	Max. De	pth (ft):	_
Flow Presen	t? 🗀 Yes	XQ №	E	stimated (f	t³/sec): /	Mon-mu	asur	able
ownstream Vi	ew Physica	l Dimensions:						 -
□ Riffle Width		Length (ft):	A	vg. Depth	(ft):	Max. De	oth (ft):	
⊠ Run Width	(16): /m	Length (ft): 2	om A	vg. Depth	(\$t): 0, 1 m		oth (ft); (2150
□ Pool Width		Length (ft):	A	vg. Depth		Max. De		.1311
Flow Presen	t? XYe	s CANO UB 4.08	E.	stimated (f	t³/sec): Z			
otenite m	7	~ V6 6.78	**)					
% Cobble	values should	d add up to 100%.) % Gravel	% Sand	50	> % Silt	50% Mud/Cla		% Bedrock
uatic Vegetation		ount of vegetation or						
ter Characteri	5m	k all that apply.)	1961 970	uk at o	iate's tre	lge		
ter Characteri Odor:	Stics*: (Mar	k all that apply.)	96 978	uk at o	M None	Other:		
ter Characteri Odor: Color:	Stics*: (Mar	k all that apply.) Musky Green	□ Chem	ut at o	M None ☐ Milky	□ Other:	brown	54
ter Characteri Odor: Color: Bottom Deposit:	Stics*: (Mar Sewage Clear Sludge	k all that apply.) Musky Green	□ Chem □ Gray	nical	✓ None ☐ Milky ☐ None	□ Other: □ Other:	bran	
ter Characteri Odor: Color:	Stics*: (Mar	k all that apply.) Musky Green	□ Chem	nical	M None ☐ Milky	□ Other:	bran	<u>5</u> 4
ter Characteris Odor: Color: Bottom Deposit: Surface Deposit: nments: Please s information is reprehensive underst	Stics*: (Mar Sewage Clear Sludge Oit attach add t to be used anding of wa	k all that apply.) Musky Green	Chem Gray Fine s Foam (including	information	None ☐ Milky ☐ None ☐ None ion from interest in its not interest.	Other: Other: Other: Other:	s form.	54
ter Characteris Odor: Color: Bottom Deposit: Surface Deposit: nments: Please s information is no prehensive underst sion on the recreati	Stics*: (Mar Sewage Clear Sludge Oil attach add t to be used sanding of wa on use analys, hereby a	k all that apply.) Musky Green Solids Scum Scum itional comments of the conditions. Consessis but may point to confirm to the best of the conditions.	Chem Gray Fine s Foam (including a recreational quently, this orditions that	information to need furth	None Milky None None None ion from interpretation but rate in is not interpretation but hat all info	Other: Other: Other: Other: Other: terviews) to this her is to provide a add to directly information report	is form. more luence a	
ter Characteris Odor: Color: Bottom Deposit: Surface Deposit: nments: Please s information is no prehensive underst sion on the recreation	Stics*: (Mar Sewage Clear Sludge Oil attach add t to be used sanding of wa on use analys, hereby a	k all that apply.) Musky Green Solids Scum Scum itional comments of the conditions. Consessis but may point to confirm to the best of the conditions.	Chem Gray Fine s Foam (including a recreational quently, this orditions that	information to need furth	None Milky None None None ion from interpretation but rate in is not interpretation but hat all info	Other: Other: Other: Other: Other: terviews) to this her is to provide a add to directly information report	is form. more luence a	
ter Characteris Odor: Color: Bottom Deposit: Surface Deposit: numents: Please s information is no prehensive underst sion on the recreati ne undersigned asheet is true a	Stics*: (Mar Sewage Clear Sludge Oit attach add to be used sanding of wa on use analys , hereby a nd accura	k all that apply.) Musky Green Solids Scum Scum itional comments of the conditions. Consessis but may point to confirm to the best of the conditions.	Chem Gray Fine s Foam (including a recreational quently, this orditions that	information to need furth	None Milky None None None ion from interpretation but rate in is not interpretation but hat all info	Other: Other: Other: Other: Other: there is to provide a ded to directly information that effect another.	is form. more luence a	

0933_386_US



0933_386_DS



additional photos not included in this document

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 092	13 (site 11)-2	387)	Site Location D	escription:	e at to day			
Site GPS Coordinates:	7.5	6520	ig voof	old nisted bridg	e at enalog			
Date & Time: 28 Jun	· · · · · · · · · · · · · · · · · · ·	00 pm		Facility Name: Southlyn Hills STF				
Personnel: DB (6		- ' ' '		Permit Number:				
Current Weather Conditi	ons: Sunny ho	t → hu	Weather Condit	Weather Conditions for Past 7 days: Hot, humid, dny				
Photo Ids: Upstream:	857 Dov		a: 185% Othe		Treating Cape			
Jses Observed*:	mem	vy 1	card A					
	T —	- 1	<u>.</u> .					
Swimming	☐ Skin diving		SCUBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking		☐ Boating	☐ Wading	☐ Rafting			
Hunting	☐ Trapping	[☐ None of the above	☐ Other:			
N/A	er of individuals rec	reating,	frequency of use, photo	-documentation of evidence	of recreational uses, etc.)			
Surrounding Condition				-documentation of evidence				
4/4	us*: (Mark all that p	ргопюtе	or impede recreational t	uses. Attach photos of evide	nce or unusual			
currounding Condition tems of interest.)	ns*: (Mark all that p	promote	or impede recreational u	uses. Attach photos of evide	nce or unusual			
currounding Condition tems of interest.) City/county parks Boating accesses	DS*: (Mark all that p □ Playgrounds □ State parks	promote MI	or impede recreational u DC conservation lands tional forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual			
currounding Condition tems of interest.)	Playgrounds State parks Fence	promote MI	or impede recreational u	uses. Attach photos of evide	nce or unusual			
currounding Condition tems of interest.) City/county parks Boating accesses No trespass sign	Playgrounds State parks Fence	promote MI Na	or impede recreational u DC conservation lands tional forests	uses. Attach photos of evide Urban areas Nature trails Other:	nce or unusual Campgrounds Stairs/walkway			
City/county parks Boating accesses No trespass sign	Playgrounds State parks Fence	oromote MI Na Ste	or impede recreational u DC conservation lands tional forests ep slopes	uses. Attach photos of evide Urban areas Nature trails	nce or unusual			

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

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Stream Mor Upstream		: hysical Dir	nensions:				•	
☐ Riffle	Width (f		Length (ft):		vg. Depth (ft):	-	Max. Depth (ft):
Run	Width (f	#Zm	Length (ft):	20m 4	vg. Depth (ft):	0.05m	Max. Depth (ft	5: 0-1 m
□ Pool	Width (f	t):	Length (ft):		vg. Depth (ft):		Max. Depth (ft	
Flow	Present?	X Yes	□ No	E	estimated (ft³/se		sec/	neter
Downstre	am Viev	v Physical	Dimensions:				6/38/3005	- -
□ Riffle	Width (f		Length (ft):		vg. Depth (ft):		Max. Depth (ft)):
₽ Run	Width (f	n: 2m	Length (ff):		vg. Depth (ft):		Max. Depth (f)	· · · · · · · · · · · · · · · · · · ·
□ Pool	Width (1		Length (ft):		vg. Depth (ft);	0.000.00	Max. Depth (ft)	
⊠ Flow	Present?	X Yes	□ N o	E	stimated (ft ³ /se	x): 3	sec/mere	
Substrate*:	(These v		idd up to 100%.) Gravel	% Sand	50	% Silt <i>5</i> 0	% Mud/Clay	% Bedrock
Water Char	V/A acterist	ics*: (Mark	all that apply.)					······ ·
Odor:		☐ Sewage	☐ Musky	□ Chen	nical 🛵	None	Other:	
Color:		☐ Clear	☐ Green	☐ Gray	🗆	Milky	& Other: 670	mish
Bottom De	posit:	□ Sludge	☐ Solids	Æ Fine	sediments 🗆	None	Other:	
Surface De	posit:	□ Oil	☐ Scum	□ Гоап	1 火	None	☐ Other:	
							iews) to this for	m.
sombreneuzive	understat	nding of water	r conditions. Con	isequently, this	s information is	not intended to	to provide a more o directly influence effect another use.	: a
I, the under: datasheet is	signed, true an	hereby aff d accurate	irm to the bes	t of my kno			ation reported o	on this UAA
Signed:		1/1/	<u>··</u>		_Date:	6/281	/or	
Organization	:_Tl	tra Te	ch, INC	·	_Date: Position: _	Scill	h ol	
				QC	Check:			

0933_387_US



0933_387_DS



additional photos not included in this document